000000000 PPPPPPPPPPPPPPPPPPPPPPPPPPPP	CCC CCC CCC CCC CCC CCC	000000000 0000000000 0000000000 000	MMM MMM MMM MMM MMM MMMMM MMMMMM MMMMMM MMMMMM
000 000 PPP	CCC	000 000	MMM MMM
000 000 PPP 000 000 PPP 000000000 PPP 00000000	000 000 00000000000 000000000000000000	000 000 000 000 000000000 000000000 000000	MMM MMM MMM MMM MMM MMM MMM MMM MMM MMM

_\$2

Sym

ASC

BOD BOD BOD BOD BOD BUG BYP CAN CAN CHE

CLU

RRRRRRRR RRRRRRRR RR RR RR RR RR RR RRRRRR	EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	*** *** *** *** *** *** *** *** *** **	MM MM MMMM MM MMMM MM MM MM M MM MM M MM MM	M AA	
		\$				

OP

VC

OPCSREPLYMAIN	REPLY command main module Copyright notice	J 8 16-Sep-1984 01:44:54 14-Sep-1984 12:50:54	VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1	Page (1
58 59 60 61 62 63	0059 0 !	atus codes with OPC\$_facility set. (W Hobbs 14-Apr wo SCS node items to the single SY		

OP VO

```
K 8
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
VO4-000
                                                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
[OPCJM.SRC]REPLYMAIN.B32;1
                                      REPLY command main module
                                                                                                                                                                                                                                                                                                         Page
                                       Start of REPLYMAIN
                                                                                                                                                                            "SBTTL 'Start of REPLYMAIN'
                                                         BEGIN
                                      0064
0065
0066
0067
0068
0069
0071
0073
0075
0077
0078
0081
0085
0085
0086
0087
0088
       LIBRARY 'SYS$LIBRARY:LIB.L32';
LIBRARY 'LIB$:OPCOMLIB';
                                                        FORWARD ROUTINE
                                                                  ward routine
replymain_broadcast,
replymain_broadcast_local,
replymain_fuldev : NOVA
replymain_init,
replymain_logfile,
replymain_main,
replymain_oprenable,
replymain_reply,
replymain_status;
                                                                                                                                                                                 Mid-level routine to mandle terminal broadcasts
Routine to broadcast locally
Get full device name for terminal, do some checking
Initializations
                                                                                                               : NOVALUE,
                                                                                                                                                                                Open or close the log file
Entry point, main routine
Enable or disable operator's terminal
Reply to a user's request
Give status for a single terminal
                                                    1 EXTERNAL ROUTINE
1 replybrd_format,
1 replybrd_io,
                                                                                                                                                                              ! Format the reply message
                                                                                                                                                                                 Do the actual break through I/O
                                                                   share_trnlog : NOVALUE;
                                                                                                                                                                                 Convert text string to operator bit number
                                                                                                                                                                             ! Recursively translate a name
                                                                   share_trnlog
                                                     1 EXTERNAL
                                                                                                                                                                             ! Flag, 1 means REPLY image, 0 means OPCOM image ! Keyword table for /ENABLE and /DISABLE qualifiers
                                                                   reply_image,
oper_keytbl
                                                                                                                  : VECTOR [, LONG];
                                     0090
0091
0092
0093
0094
0095
0096
0097
0098
0102
0103
0106
0107
0108
0119
01113
01145
0119
                                                                                                                   : VECTOR [max_dev_nam, BYTE],
                                                                   dvi_terminal_len,
dvi_terminal_buf
                                                                    ipi_username_len,
                                                                                                                  : VECTOR [12, BYTE],
: $bblock [8],
: VECTOR [16, BYTE],
: $stat_str_desc (0, nodename_buf),
: $stat_str_desc (16, nodename_buf),
: $bblock [4],
                                                                   ipi_username_buf
ipi_privs
nodename_buf
                                                                   nodename_desc
tranlog_desc
                                                                    devchar
                                                                   in_VAXcluster
batch_mode
nodecsid
dvi_items
                                                                                                                    : LONG.
                                                                                                                    : LONG.
                                                                                                                  : LUNG,
: VECTOR [7, LONG] PRESET (
     [0] = (dvi$_devchar^16 OR 4),
     [1] = devchar,
     [2] = 0,
     [3] = (dvi$_fulldevnam^16 OR max_dev_nam),
     [4] = dvi_terminal_buf,
     [5] = dvi_terminal_len,
     [6] = 0),
: LONG.
                                                                                                                    : LONG.
                                                                   mba2_refcnt
mba2_dvi_items
                                                                                                                    : LONG,
                                                                                                                   : LONG,

: VECTOR [4, LONG] PRESET (

      [0] = (dvi$_refcnt^16 OR 4),

      [1] = mba2_refcnt,

      [2] = 0,

      [3] = 0),

: VECTOR [7, LONG] PRESET (

      [0] = (jpi$_username^16 OR 12),

      [1] = jpi_username_buf,

      [2] = jpi_username_len,
       118
119
120
121
                                                                   jpi_items
```

OP

```
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
VO4-000
                                                                  REPLY command main module
Start of REPLYMAIN
                                                                                                                                                                                                                                                                                                                                                                           VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Page
                                                                                                                                                                                                                                    = (jpi$_curpriv^16 OR 8),
= jpi_privs,
= 0,
= 0),
                                                                 11234567890123456789012345678901234567890123
1122223345678901234445678901234567890123
                                                                                                                                                                                                      : VECTOR [10, LONG] PRESET (
[0] = (syi$_nodename^16 OR 16),
[1] = nodename_buf,
[2] = nodename_desc [dsc$w_length],
[3] = (syi$_node_csid^16 OR 4),
[4] = nodecsid,
                                                                                                                    syi_items
                                                                                                                                                                                                                                      = 0
                                                                                                                                                                                                                                               (syi$_cluster_member^16 OR 4), in_VAXcluster,
                                                                                                                                                                                                                                       =
                                                                                                                                                                                                                                       =
                                                                                                                                                                                                                                       =
                                                                                                                                                                                                                                               ŏí:
                                                                                                           Define ascii text descriptors once
                                                                                                                ascid_ABORT = XASCID 'ABORT',
ascid_ALL = XASCID 'ALL',
ascid_BELL = XASCID 'BELL',
ascid_BELK = XASCID 'BEANK TAPE',
ascid_DISABEE = XASCID 'DISABEE',
ascid_ENABLE = XASCID 'ENABLE',
ascid_LOG = XASCID 'INITIALIZE_TAPE',
ascid_NODE = XASCID 'NODE',
ascid_NOTIFY = XASCID 'NOTIFY',
ascid_PENDING = XASCID 'NOTIFY',
ascid_PENDING = XASCID 'P1',
ascid_SHUTDOWN = XASCID 'SHUTDOWN',
ascid_STATUS = XASCID 'STATUS',
ascid_SYSCOMMAND = XASCID 'SYSSCOMMAND',
ascid_SYSCOMMAND = XASCID 'SYSSCOMMAND',
ascid_SYSCOMMAND = XASCID 'SYSSNODE',
ascid_TEMPORARY = XASCID 'TEMPORARY',
ascid_TERMINAL = XASCID 'TERMINAL',
ascid_TO = XASCID 'URGENT',
ascid_USERNAME = XASCID 'USERNAME',
ascid_WAIT = XASCID 'WAIT';
                                                                                                  BIND
```

OP VO

```
M 8
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
VO4-000
                      REPLY command main module replymain_broadcast routine
                                                                                                                         VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32;1
                                                                                                                                                                           Page
                                 GLOBAL ROUTINE replymain_broadcast =
    %SBTTL 'replymain_broadcast routine'
                                    Functional description:
                                            This routine controls terminal broadcasts.
                                    Input:
                                            None.
                                    Implicit Input:
                                            None.
                                    Output:
                                            None.
                                    Implict output:
                                            None.
                                    Side effects:
                                            None.
                                    Routine value:
                                            None.
                                 BEGIN
                                                                                                   ! Start of replymain_broadcast
                                 OWN
                                                                 : LONG,
: VECTOR [4, LONG] PRESET (
  [0] = (syi$_node_csid^16 OR 4),
  [1] = node_csid,
                                      node_csid
                                      targnode_itmlst
                                                                        [0]
[1]
[2]
[3]
                                                                            = 0;
                                 REGISTER
                                                                                                      Output message length
                      0206
0207
0208
0209
0210
0211
0212
0215
0216
0217
0218
                                                       : $ref_bvector;
                                                                                                      Output message pointer
                                      mptr
                                 LOCAL
                                      text : $dyn_str_desc,
message : $bblock lopc$k maxread],
message_desc : VECTOR [2, LONG],
                                                                                                   ! Dynamic string descr for message text ! Buffer to build message
                                      status;
                                    Check for oper priv, return nooper error with opcom's facility code
                                 If NOT .jpi_privs [prv$v_oper]
                                      RETURN (opc$_facility^16 OR ss$_nooper);
```

VO

........

```
N 8
OPCSREPLYMAIN
VO4-000
                                                                                                       16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
                         REPLY command main module
                                                                                                                                              VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32:1
                          replymain_broadcast routine
                         Initialize the message
    NOTE: We are using an internal interface to OPCOM which is subject to change!
                                     ! Init all fixed fields to zero
                                         find out which qualifiers are present, and set the bits in the message
                                                                                         = cli$present (ascid_ALL);
= cli$present (ascid_BELL);
= cli$present (ascid_NODE);
= cli$present (ascid_NOTIFY);
= cli$present (ascid_SHUTDOWN);
= cli$present (ascid_TERMINAL);
= cli$present (ascid_URGENT);
= cli$present (ascid_USERNAME);
= cli$present (ascid_WAIT);
                                     message [rpybrd_v_all]
message [rpybrd_v_bell]
message [rpybrd_v_node]
message [rpybrd_v_notify]
message [rpybrd_v_shutdown]
message [rpybrd_v_terminal]
message [rpybrd_v_urgent]
message [rpybrd_v_username]
message [rpybrd_v_wait]
If _batch_mode
                                      IF .batch_mode THEN
                                                                                                                    ! Make adjustment for batch mode
                                             message [rpybrd_v_notify] = false;
                                                                                                                    ! /NOTIFY doesn't make much sense for batch
                                         Move the standard fields to the message, first the sending terminal name
                                      mptr = message [rpybrd_t_text];
mlen = .dvi_terminal_len;
                                                                                                                       Set output pointer to start of text area
                                                                                                                       Get length of terminal name
                                      message [rpybrd_w_send_term_len] = .mlen;
CH$MOVE (.mlen, dvi_terminal_buf, .mptr);
                                                                                                                       Store the length in the message header
                                                                                                                       Append the name to the buffer
                                                                                                                    ! Move the output pointer past this item
                                      mptr = .mptr + .mlen;
                                         Next move the username of the sender
                                      mlen = .jpi_username_len;
message [rpybrd_w_send_user_len] = .mlen;
CH$MOVE (.mlen, jpi_username_buf, .mptr);
                                      mptr = .mptr + .mlen;
                                         Move the csid and nodename of the sender
                                  2 !
2 message [rpybrd_l_send_csid] = .nodecsid;
2 mlen = .nodename_desc [dsc$w_length];
2 message [rpybrd_w_send_node_len] = .mlen;
2 CH$MOVE (.mlen, .nodename_desc [dsc$a_pointer], .mptr);
2 mptr = .mptr + .mlen;
2 !
                                         Next fetch and move the actual message text
                                   3 IF NOT (status = cli$get_value (ascid_P1, text))
2 THEN
                                      $signal_stop (.status);
mlen = .text [dsc$w_length];
                                                                                                                    ! Zero-length messages are fine with us
                                      message [rpybrd_w_message_len] = .mlen;
CH$MOVE (.mlen, .text [dsc$a_pointer], .mptr);
```

Page

VC

.message [rpybrd_w_targ_node_len] EQL 0

THEN

OPC VO4

```
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
VO4-000
                     REPLY command main module
                                                                                                                  VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32:1
                                                                                                                                                                 Page
                    replymain_broadcast routine
                                                                                                                                                                        (3)
                                          message [rpybrd_v_broad_local] = true
                                                                                                        ! Now we know it is going to the local node
                                          message [rpybrd_v_broad_remotelst] = true;
                                                                                                        ! This means that nodes in a list
   396
397
398
401
403
404
408
409
410
                                    END:
                                  Almost done with the message, store the final length in the header and build a descriptor
                               message_desc [0] = message [clm_w_length] = .mptr - message;
message_desc [1] = message;
                                                                                                                  ! Save in header and descriptor
                     0400
0401
0402
0403
                                  Now, decide if we should let the OPCOM process do the actual i/o or whether we should do it locally.
                                 We do it locally if any of the following conditions are true:
                    0404
0405
0406
0407
0408
0409
0410
0411
0412
0415
0416
0417
0418
                                        If the command is REPLY /WAIT, then the user has specifically requested local i/o operations. If the reference count on the operator mailbox is not equal to 2, then OPCOM is not there, and we have to do it. (Also if the $getdvi fails, MBA2: is not there. Should not be possible) If the $sndopr fails, then obviously OPCOM won't do it and we must.
                               If .message [rpybrd_v_wait]
                                    RETURN replymain_broadcast_local (message);
   414
                                 Check the operator mailbox
   416
                               status = $getdvi (devnam=ascid_MBA2, itmlst=mba2_dvi_items);
                               IF NOT .status
                                   .mba2_refcnt NEQ 2
                                    RETURN replymain_broadcast_local (message);
                                 Send the message to OPCOM so that it will get to remote nodes
                               IF NOT (status = $sndopr (msgbuf=message_desc))
                               THEN
                                    RETURN replymain_broadcast_local (message);
                               RETURN (opc$_facility^16 OR ss$_normal);
                               END:
                                                                                             ! End of replymain_broadcast
                                                                                                          OPC$REPLYMAIN REPLY command main module
                                                                                                .TITLE
                                                                                                 . IDENT
                                                                                                          \V04-000\
                                                                                                .PSECT $PLIT$, NOWRT, NOEXE, 2
                                        00 00 54 52 4F 42 41
010E0005
                                                                              00000 P.AAB:
00008 P.AAA:
                                                                                                .ASCII
                                                                                                          \ABORT\<0><0><0>
                                                                                                .LONG
                                                                                                          17694725
                                                                             ÖÖÖÖÇ
                                                                                                ADDRESS P.AAB
                                                                 00000000.
                                                                                     P.AAD:
                                                                              00010
                                                                                                .ASCII
                                                                              00014 P.AAC:
                                                                                                 .LONG
                                                         00018
0001C
                                                                                                 ADDRESS P.AAD
                                                                                     P.AAF:
                                                                                                          \BELL\
17694724
                                                                                                 .ASCII
                                                                              00020 P.AAE:
                                                                                                 .LONG
                                                                 00000000
                                                                                                 ADDRESS P.AAF
                                                                                                          \BLANK_TAPE\<0><0>
                                                                                     P.AAH:
                                   41 54 5F
                                                    4B
                                                         4E 41
                                                                                                .ASCII
                                                                 010E000A
                                                                              00034 P.AAG:
                                                                                                          17694730
                                                                                                .LONG
```

: R

OPC VO4	\$REPI	LYMA	IN	REP	PLY c	omma in_b	nd m	ain Icast	modu	le itine			E 9 16-Sep-1984 01:44:54 VAX-11 Bliss-32 V4.0-742 P. 14-Sep-1984 12:50:54 [OPCOM.SRC]REPLYMAIN.B32;1	age 10
							00	45	40	42	41	53 49 44 010E0007 00000000	00038 .ADDRESS P.AAH 0003C P.AAJ: .ASCII \DISABLE\<0> 00044 P.AAI: .LONG 17694727	
							00	00	45	40	42	000000000 010E0006 00000000	00044 P.AAI: .LONG 17694727 00048 .ADDRESS P.AAJ 0004C P.AAL: .ASCII \ENABLE\<0><0> 00054 P.AAK: .LONG 17694726 00058 .ADDRESS P.AAL	
45	50	41	54	5F	45	5A	49	40	41	49	54	49 4E 49	00054 P.AAK: .LONG 17694726 00058 .ADDRESS P.AAL 0005C P.AAN: .ASCII \INITIALIZE_TAPE\<0> 0006B 0006C P.AAM: .LONG 17694735	
											00	010E000F 000000000 47 4F 4C	00070 .ADDRESS P.AAN 00074 P.AAP: .ASCII \LOG\<0>	
							00	00	3A	32	41	010E0003 000000000 42 40 5F 010E0006	0007C .ADDRESS P.AAP 00080 P.AAR: .ASCII \ MBA2:\<0><0>	
											45	010E0006 00000000 44 4F 4E 010E0004 000000000 54 4F 4E	0008C .ADDRESS P.AAR 00090 P.AAT: .ASCII \NODE\ 00094 P.AAS: .LONG 17694724	
							00	00	59	46	49	010E0006	0009C P.AAV: .ASCII \N0TIFY\<0><0> 000A4 P.AAU: .LONG 17694726 000A8 .ADDRESS P.AAV	
							00	47	,,	40	00	010E0002	000AC P.AAX: .ASCII \P1\<0><0> 000B0 P.AAW: .LONG 17694722 000B4 .ADDRESS P.AAX	
									4E	49	44	010E0007 00000000	000C0 P.AAY: .LONG 17694727	
							4E	57	4F	44	54	010E0008 00000000	000C8 P.ABB: .ASCII \SHUTDOWN\ 000D0 P.ABA: .LONG 17694728 000D4 .ADDRESS P.ABB 000D8 P.ABD: .ASCII \STATUS\<0><0>	
							00	00	53	55	54	01000006	000E0 P.ABC: .LUNG 1/694/20	
			00	44	4E	41	40	4D	4F	43	24	53 59 53 010E000B	000E4 .ADDRESS P.ABD 000E8 P.ABF: .ASCII \SYS\$COMMAND\<0> 000F4 P.ABE: .LONG 17694731	
							45	44	4F	4E	24	010E000B 000000000 53 59 53 010E000B 00000000	000F8 .ADDRESS P.ABF 000FC P.ABH: .ASCII \SYS\$NODE\ 00104 P.ABG: LONG 17694728	
			00	00	00	59	52	41	52	4F	50	4D 45 54 010E0009 00000000	00108 .ADDRESS P.ABH 0010C P.ABJ: .ASCII \TEMPORARY\<0><0> 00118 P.ABI: .LONG 17694729 0011C .ADDRESS P.ABJ	
							40	41	4E	49	4D	010E0008 00000000	00120 P.ABL: .ASCII (TERMINAL) 00128 P.ABK: .LONG 17694728 0012C .ADDRESS P.ABL	
											00	00 4F 54 010E0002 00000000	00130 P.ABN: .ASCII \T0\<0><0> 00134 P.ABM: .LONG 17694722 00138 .ADDRESS P.ABN	
							00	00	54	4E	45	47 52 55 010E0006 00000000	00138 .ADDRESS P.ABN 0013C P.ABP: .ASCII \URGENT\<0><0> 00144 P.ABO: .LONG 17694726 00148 .ADDRESS P.ABP	
							45	4D	41	4E	52	45 53 55 010E0008 00000000	0014C P.ABR: .ASCII \USERNAME\ 00154 P.ABQ: .LONG 17694728	
											54	49 41 57	00158 .ADDRESS P.ABR 0015C P.ABT: .ASCII \WAIT\	:

10CF0004

00000000

00000000

OOOEC

V04

```
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
                                                                                                                                                                 VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32;1
OPCSREPLYMAIN
VO4-000
                             REPLY command main module
                                                                                                                                                                                                                                             (3)
                              replymain_broadcast routine
                                                                                                              000F8
00100 NODE_CSID:
                                                                         00000000
                                                                                           00000000
                                                                                                                                         LONG
                                                                                                                                                      0, 0
                                                                                                                                         BLKB
                                                                                                              00104 TARGNODE_ITMLST:
                                                                                            10D00004
                                                                                                                                        LONG
                                                                                                                                                      282066948
                                                                                                                                        .ADDRESS NODE_CSID
                                                                                           000000000
                                                                                                              00108
00100
                                                                         00000000
                                                                                                                                                     0, 0
                                                                                                                                        .LONG
                                                                                                                        ASCID_ABORT = P.A
ASCID_ALL = P.A
ASCID_BELL = P.A
ASCID_BLANK_TAPE = P.A
ASCID_DISABE = P.A
ASCID_ENABLE = P.A
ASCID_INITIALIZE_TAPE =
                                                                                                                                                              P.AAA
                                                                                                                                                              P.AAC
                                                                                                                                                              P.AAE
                                                                                                                                                              P.AAG
                                                                                                                                                              P.AAI
                                                                                                                                                              P.AAK
                                                                                                                                                              P.AAM
                                                                                                                         ASCID_LOG=
ASCID_MBA2=
ASCID_NODE=
ASCID_NOTIFY=
ASCID_P1=
ASCID_P1=
ASCID_SHUTDOWN=
ASCID_STATUS=
ASCID_SYSCOMMAND=
ASCID_SYSCOMMAND=
ASCID_TEMPORARY=
ASCID_TEMPORARY=
ASCID_TERMINAL=
ASCID_URGENT=
ASCID_URGENT=
ASCID_USERNAME=
ASCID_WAIT=
EXTRN_RE
                                                                                                                                                              P.AAO
                                                                                                                                                                 . AAQ
                                                                                                                                                                 .AAS
                                                                                                                                                              P.AAU
                                                                                                                                                              P. AAW
                                                                                                                                                              P.AAY
                                                                                                                                                              P.ABA
                                                                                                                                                              P.ABC
                                                                                                                                                              P.ABE
                                                                                                                                                              P.ABG
                                                                                                                                                              P.ABI
                                                                                                                                                              P.ABK
                                                                                                                                                              P. ABM
                                                                                                                                                              P.ABO
                                                                                                                                                              P.ABQ
                                                                                                                                                      P.ABQ
P.ABS

REPLYBRD_FORMAT

REPLYBRD_IO, SHARE_LOOKUP_OPER_BIT

SHARE_TRNLOG, REPLY_IMAGE

OPER_REYTBL, CLI$PRESENT

CLI$GET_VALUE, LIB$STOP

SYS$GETSYI, SYS$GETDVI
                                                                                                                                        .EXTRN
                                                                                                                                        .EXTRN
                                                                                                                                         .EXTRN
                                                                                                                                         .EXTRN
                                                                                                                                         .EXTRN
                                                                                                                                         .EXTRN
                                                                                                                                                       SYS$SNDOPR
                                                                                                                                         .EXTRN
                                                                                                                                                      SCCDES, NOWRT, 2
                                                                                                                                        .PSECT
                                                                                                                                                      REPLYMAIN BROADCAST, Save R2,R3,R4,R5,R6,-
R7,R8,R9,R10,R11
ASCID_NODE, R11
NODECSID, R10
CLI$PRESENT, R9
-2584(SP), SP
#34471936, TEXT
                                                                                                      OFFC 00000
                                                                                                                                                                                                                                           0163
                                                                                                                                        .ENTRY
                                                                                                                                        MOVAB
                                                                                                               00007
                                                                                     0000
                                                                                                                                        MOVAB
                                                                                                              00000
                                                                             0000000G
                                                                                                  00
                                                                                                                                        MOVAB
                                                                                                               00013
                                                                                                                                        MOVAB
                                                                                                                                                                                                                                           0209
                                                                                                         DÖ
                                                                                                               00018
                                                                                                                                        MOVL
                                                               F8
                                                                             020E0000
                                                                                                  AD
02
8F
                                                                                                         D4
E0
D0
                                                                                                              00023
00028
                                                                                                                                        CLRL
                                                                                                                                                       TEXT+4
                                                                                                                                                       #2, JPI_PRIVS+2, 1$
#338068, R0
                                                                                                                                                                                                                                           0216
                                               08
                                                               CE
                                                                        50
                                                                                                                                        BBS
                                                                             00052894
                                                                                                                                        MOVL
                                                                                                               0002F
00030 1$:
                                                                                                                                        RET
                                                                                                                                                                                                                                           0224
                     30
                                                                                                  00
                                                                                                                                        MOVC5
                                                                                                                                                       #0, (SP), #0, #48, MESSAGE
                                               00
                                                                        6E
                                                               10
                                                                             09061013
                                                                                                         DO
                                                                                                                                        MOVL
                                                                                                                                                       #151392275, MESSAGE
                                                                                                                                                       NODECSID, MESSAGE+8
                                                                                                         DO
                                                                                                                                        MOVL
```

CSREPLYP	MAIN	REPLY co replymai	mmar n_br	nd main modul roadcast rout	le tine			16-Sep- 14-Sep-	1984 01:44 1984 12:50	:54	VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1	Page (
10	AE		01		80 80 80	01 50	9F FB F0	00043 00046 00049 0004F 00052	PUSHAB CALLS INSV PUSHAB CALLS INSV PUSHL CALLS INSV PUSHAB CALLS INSV PUSHAB	ASCII RO. A	D ALL CISPRESENT WO, W1, MESSAGE+12 D BELL CISPRESENT W1, W1, MESSAGE+12	. 02
10	AE		01	É	69 01	50	FO	00052 00055 00058	CALLS INSV PUSHL			. 02
10	AE		01	ć	69 02 10	5B 01 50 AB 01 50	FB FO	0005B 0005D 00060 00066	CALLS INSV PUSHAR	RO.	CLISPRESENT W2, W1, MESSAGE+12	02
10	AE		01	6	303	01 50 AB	FB FO 9F	00069 00060	CALLS INSV PUSHAB	RO.	CLISPRESENT #2, #1, MESSAGE+12 D NOTIFY CLISPRESENT #3, #1, MESSAGE+12 D SHUTDOWN	02
10	AE		01	6	04 0094	01 50 CB	FB FO 9F	00075	CALLS INSV PUSHAB		LLIBPRESENI	02
10	AE		01	8	69 05 00B(01 50 CB	FB	00082 00085	CALLS INSV PUSHAR	#1. RO.	CLISPRÉSENT #5, #1, MESSAGE+12 D URGENT	02
10	AE		01	8	06 0000	01 50	9F FB F0	0008F 00092	CALLS INSV PUSHAR	RO.	CTISPRESENT #6, #1, MESSAGE+12 D USERNAME	02
10	AE		01	8	0000	01 50 CB	FB FO	0009C 0009F	CALLS INSV PUSHAR	RO.	CLISPRESENT W7, W1, MESSAGE+12	02
10	AE		01	9	69 00 04 F(01 50	FB	000A9	CALLS INSV PUSHAB CALLS INSV PUSHAB CALLS INSV PUSHAB CALLS INSV BLBC BICB2 MOVAB MOVL MOVU MOVU MOVC3 ADDL2	#1. RO.	TERMINAL CISPRESENT WS, W1, MESSAGE+12 D URGENT CISPRESENT W6, W1, MESSAGE+12 D USERNAME CISPRESENT W7, W1, MESSAGE+12 D WAIT CISPRESENT W0, W1, MESSAGE+13 H MODE, 2\$ MESSAGE+12 AGE+48, MPTR TERMINAL LEN, MLEN , MESSAGE+20 , DVI TERMINAL BUF, (MPTR) , MPTR USERNAME LEN, MLEN	
				10	AE 57 40 56 FF78	08	84 9E 00 80 80	000B6	BICB2 MOVAB	MESS	MESSAGÉ+12 AGE+48, MPTR TERMINAL LEN, MLEN	02 02 02 02 02 02
			67	FF7C	AE CA 57	56 56	80 28 C0	00000	MOVW MOVC3 ADDL2	MLEN. MLEN.	, MESSAGE+20 , DVI TERMINAL_BUF, (MPTR)	02 02 02
			67	26 CO	S6 BC		B0	00000	MOVI	JPI (USERNAME LEN, MLEN , MESSAGE+22 , JPI USERNAME BUF, (MPTR)	02 02 02
					AĀ 57 AE 56 E4	56 6A	000	OOOFA	MOVW MOVC3 ADDL2 MOVL MOVZWL	MLEN NODE	MPTR CSID, MESSAGE+16 NAME DESC. MLEN	02 02 02
			67	28 E8	AE 56 E4 AE BA 57	56 56	S 20	000E8 000EC 000F1 000F4	MOVW MOVC3 ADDL2	MLEN MLEN MLEN	, MESSAGE+24 , anodename_desc+4, (MPTR) , MPTR	02 02 02 02 02 02 02 02
					F 8	56 56 56 6A 56 56 56 6A 56 56 6A 6D 50 50 50 50 50 50 50 50 50 50 50 50 50	9F 9F	000F4 000F7 000FA	PUSHAB PUSHAB CALLS	ASCII	D P1 CCISGET VALUE	02
					00 58 0A	50 58 58	D0	0 00101 3 00104 5 00107	MOVUMOVUS MOVC3 ADDL2 PUSHAB PUSHAB CALLS MOVL BLBS PUSHL CALLS RET MOVZWL	RO, STATI	WPTR USERNAME_LEN, MLEN , MESSAGE+22 , JPI_USERNAME_BUF, (MPTR) , MPTR CSID, MESSAGE+16 NAME_DESC, MLEN , MESSAGE+24 , anodename_Desc+4, (MPTR) , MPTR D_P1 CCISGET_VALUE STATUS US, 3\$ US LIB\$STOP	02
					00	01	FE Q4	00109	RET	#1, 1	LIB\$STOP	
			67	2A FC	56 F8 AE BD 57	56 56 56 56 56	30 28 00 98	00111 3\$: 000115 000119 00011E 000121 000125	MOVZWL MOVW MOVC3	MLEN	, MLEN , MESSAGE+26 , atext+4, (MPTR) , MPTR AGE, RO MPTR, MESSAGE+28	02 02 02 02 02
		20	AE		57 50 57) AE 50	9E	00121 3 00125	MOVW MOVC3 ADDL2 MOVAB SUBW3	MESS.	ÁGE, RO MPTR, MESSAGE+28	02

PCSREPLYMAIN 04-000	REPLY c	ommar in_br	nd main mode	ule				I 9 16-Sep 14-Sep	-1984 01:44 -1984 12:50	:54 VAX-11 Bliss-32 V4.0-742 :54 [OPCOM.SRC]REPLYMAIN.B32;1	Page 14
		39	10	AE	78	05 AD	E1 9F	0012A 0012F 4\$:	BBC PUSHAB	#5, MESSAGE+12, 5\$: 0286 : 0288
			0000000G	00	0094	AD CB 02 50 AD	9F FB E9	00132	PUSHAB CALLS BLBC PUSHAB CALLS PUSHAB CALLS MOVZWL MOVB MOVC3 INCL ADDW2 ADDW2	ASCID_TERMINAL #2, CLISGET_VALUE RO, 5\$ TEXT #1, SHARE_TRNLOG	
			0000G	CF	F8	AD 01	9F	00140	PUSHAB	TEXT	: 0291
			0000V	CF	F8	AD 01	FB FR	00148 00148	PUSHAB	#1 DEDI YMATH FIII DEV	0292
			00001	56	F8	AD 56	30	00148 00148 00150 00154 00157	MOVZWL	TEXT, MLEN MLEN. (MPTR)	029
	01	A7	FC	BD		56	28 06	00157 0015D	MOVC3	TEXT, MLEN MLEN, (MPTR) MLEN, aTEXT+4, 1(MPTR) MLEN MLEN MLEN MLEN MLEN, MESSAGE+30 MLEN, MPTR	029
			2E	AE 57		56	AO	0015F 00163	ADDU2	MLEN, MESSAGE+30 MLEN, MPTR	0298
					10	C7	11	00166 00168 5\$:	BRB TSTB BGEQ PUSHAB CALLS BLBC PUSHAB CALLS MOVZWL	MESSAGE+12	029 029 029 029 029 029 028 028
						AE 31 AD	18 9F	00160	BGEQ	7\$	0300
			0000000G	00	0000	AD CB 02 50	9F FB	00170 00174	PUSHAB	TEXT ASCID USERNAME #2. CLISGET VALUE	
				20	F8	50 AD	E9	0017B	BLBC	#2, CCISGET_VALUE RO, 7\$ TEXT	: 030
			0000G	CF 56		AD O1 AD	FB 3C	00181 00186	CALLS	#1, SHARE TRNLOG	:
	01	A7	FC	56 67 BD		56	90 28	00186 0018A 0018D	MOVC3	MLEN, (MPTR) MLEN, aTEXT+4, 1(MPTR)	; 031 ; 031
			30			AD 56 56 56 56 CF 06 00BF 00BF	D6	00107	ADDL2	TEXT #1, SHARE TRNLOG TEXT, MLEN MLEN, (MPTR) MLEN, @TEXT+4, 1(MPTR) MLEN MLEN, MESSAGE+32 MLEN, MPTR 6\$	031 031 031 031 031 031 031 032
				AE 57		56 CF	CO	00199 0019C	ADDL2 BRB BISB2	MLEN, MPTR	: 0310
		03	1D 1C	AE AE		06	88 E0	00195 00199 0019C 0019E 7\$: 001A2 001A7 001AA 8\$: 001AE	DDC		: 032
			10	AE			31 8A	001A7 001AA 8\$:	BBS BRW BICB2 MOVAB SUBW3 PUSHAB PUSHA CALLS BLBS BRW BRW	#2, MESSAGE+12, 8\$ 20\$ #6, MESSAGE+13 MESSAGE, R0 R0, MPTR, MESSAGE+36 TEXT R11	033
	34	AE		AE 50 57	10	AE 50	9E	001AE 001B2	MOVAB SUBW3	MESSAGE, RO RO, MPTR, MESSAGE+36	
					F8	AD 5B	9F DD	001B7 9\$: 001BA	PUSHAB	R11	0330
			0000000G	00		AE 50 AD 58 02 50 0091 AD 01	FB E8	001BA 001BC 001C3 001C6 001C9 10\$:	BLBS	#2, CLI\$GET_VALUE R0, 10\$ 18\$_	
			*****		F8	AD	9F	00109 10\$:	LOSHVO	TEYT	0339
E4 AA		00	0000G	CF BD	F8 E8	AD	9F FB 2D	00101	CALLS CMPC5	#1. SHARE_TRNLOG TEXT, aTEXT+4, #0, NODENAME_DESC, - anodename_desc+4 12\$ #2, Message+13	034
			10	AE	50	06	12	001D9 001DB 001DD	BNEQ	12\$ MESSAGE+13	0346
			10		£8	AD 06 02 04 AD AD 8F 02 51	11	001E1 11\$:	BNEQ BISB2 BRB MOVZWL	9\$ TEXT. DESC	:
	04	BE	04	6E AE 6E	F8 FC 5F	AD	30 38 12	001E7	MOAF	TEXT, DESC TEXT+4, DESC+4 #95, DESC, adesc+4	0359 0360 036
	04	DE		OL.	,,	02	12	001E7 001EC 001F2 001F4 001F6 13\$:	BNEQ	#95, DESC, aDESC+4 13\$ R1	
						51	D4 D5	001F6 13\$:	BNEQ CLRL TSTL BEQL SUBL3	PTR 14\$ PTR, DESC+4, RO	036
		50	04	AE		0C 51	C3	001F8 001FA	SUBL 3	PTR, DESC+4, RO	: 036

OPCSREPLYMAIN VO4-000	REPLY co	omman in_b?	d main mod oadcast ro	ule utin	ne			16	-Sep-1	984 01:44 984 12:50	54	VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1	Page 1
	04	BE	04	6E 6E		50 51 3A 02	00 3A 12	001FF 00202 00206 0020B	148:	ADDL2 MOVL LOCC BNEQ	155	DESC+4 DESC, adesc+4	036 036
						51	05	0020D 0020F	15\$:	BNEQ CLRL TSTL BEQL SUBL3	R1 PTR 16\$		036
		6E		51	04	05 AE 7E 7E	C3	00213	16\$:	SUBL3 CLRQ	DES	C+4. PTR. DESC	037
					7C 10	7E AA AE 7E	9F	0021A 0021C		CLRQ CLRL PUSHAB PUSHAB CLRQ CALLS MOVL BLBS PUSHL PUSHAB PUSHL PUSHL CALLS	TAR	P) GNODE_ITMLST	
			00000000G	00		7E	7C FB	00222		CALLS	DES -(SI	ŠYSSGETSYI	
				00 58 15		58 58	00 E8	0022B 0022E 00231		BLBS PUSHL	STA STA	SYSSGETSYI STATUS TUS, 178 TUS T	037
					F8	58 58 AD 01 8F 04	9F 00 00			PUSHAB PUSHL	TEX	1052	
			0000000G	00	0005825C		FB 04	00238 0023E 00245		CALLS	#4.	LIB\$STOP	
			01	56	70	05 56 AA 56	90 90	00246	17\$:	MOVE	MLE	MLEN N, (MPTR) E_CSID, 1(MPTR) N, MESSAGE+34 N, MPTR	037 038 038 038 038
			01 32	A7 AE 57	78	56	AO CO	00251		MOVL ADDW2 ADDL2	MLE	N, MESSAGE+34 N, MPTR	: 038
					32	81	11 B5 12	00258 0025A 0025D	18\$:	BRB	11\$ MES 19\$	5AUE+34	033
			10	AE		AE 06 02 04 08 AE	88	0025F 00263		BNEQ BISB2 BRB	#2,	MESSAGE+13	039
			10	AE 50	10	08 AE	88 9E	00265	19\$: 20\$:	BISB2 MOVAB	MES.	MESSAGE+13 SAGE, RO	039
			14 08 00	AE AE 31		57 57	B0 D0 9E	00269 00260 00270 00274 00278		MOVU	R7.	MESSAGE+4 MESSAGE_DESC	
			OC	AE 31	10 10	AE AE 7E 7E	9E E8	00278 0027D 00281		BLBS CLRO	MES MES	MESSAGE+13 SAGE, RO R7 MESSAGE+4 MESSAGE_DESC SAGE, MESSAGE_DESC+4 SAGE+13, 21\$ P) P) P) PO DVI LIEMS	039 040 041
					24 F4	7E	70 9F	00283		CLRQ PUSHAB	-(S	P) 2_DVI_ITEMS	
			0000000G	00	14	AA AB 7E 08 50 58	7C FB	00288 0028B 0028D 00294 00297		BRB BISB2 MOVAB SUBL2 MOVW MOVL MOVAB BLBS CLRQ CLRQ PUSHAB PUSHAB CLRQ CALLS	-(S	DVI_ITEMS ID_MBA2 P) SYS\$GETDVI	
				00 58 18 02	20	50	DO E9	00294		MOVL	RO, STA	STATUS TUS, 21\$	041
				02	20	12 7E	12 04	0029E		MOVL RLBC CMPL BNEQ CLRL PUSHAB CALLS MOVL BLBS PUSHAB	21\$ -(S	SYSSGETDVI STATUS TUS, 21\$ 2_REFCNT, #2 P) SAGE_DESC SYSSSNDOPR STATUS TUS, 22\$ SAGE REPLYMAIN_BROADCAST_LOCAL	042
			000C0000G	00	ОС	95 05	PF FB	00242		PUSHAB	MES.	SAGE DESC SYSSSNDOPR STATUS	
				00 58 09	10	50 58 AE 01	D0 E8 9F	002AF	21\$:	BLBS PUSHAB	STÁ	TUS, 22\$ SAGE	042
			0000V	CF		01	FB 04	002B5 002BA		RET	#1,	REPLYMAIN_BROADCAST_LOCAL	

0P0

: 1

OPC\$REPLYMAIN REPLY command main module v04-000 replymain_broadcast routine

16-Sep-1984 01:44:54 14-Sep-1984 12:50:54

VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1

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50 00050001

8F DO 00288 22\$

MOVL

#327681, RO

: 0428 : 0429 OPO

; Routine Size: 707 bytes, Routine Base: \$CODE\$ + 0000

```
OPCSREPLYMAIN
VO4-000
                                                                                            VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32;1
                REPLY command main module
                replymain_broadcast_local (message)
                         GLOBAL ROUTINE replymain_broadcast_local (message : $ref_bblock) =
  %SBTTL 'replymain_broadcast_local (m
                           Functional description:
                This routine broadcasts to terminals on the local node.
                           Input:
                                 message - pointer to RPYBRD message
                           Implicit Input:
                                 None.
                           Output:
                                 None.
                           Implict output:
                                 None.
                           Side effects:
                                 None.
                           Routine value:
                                 I/O status
                         BEGIN
                                                                           ! Start of replymain_broadcast_local
                         LOCAL
                             status;
                           If we thought we were going to talk to the cluster, let them know it ain't a gonna happen.
                         if .in_VAXcluster
                            (.message [rpybrd_v_broad_remoteall]
                        .message [rpybrd_v_broad_remotelst])
THEN
                             $signal (If .message [rpybrd_v_wait] THEN opc$_noremwait ELSE opc$_norembroad);
                           Format and broadcast the message to the local node
                         message [rpybrd_v_wait] = true;
                                                                           ! We are in /WAIT mode now, perhaps implicitly
                         If .message [rpybrd_v_broad_local]
THEN
                             status = replybrd_format (.message, nodename_desc);
                             IF .status
                             THEN
                                 status = replybrd_io (.message, nodename_desc);
```

VO

OPC\$REPLYMAIN V04-000 : 490 : 491 : 492 : 493 : 494 : 495	REPLY command main module replymain_broadcast_local 0487 3 END 0488 2 ELSE 0489 2 status = opc\$ 0490 2 Q491 2 RETURN (opc\$_faciou492 1 END;	(message) 14-Sep-	1984 01:44:54	Page 18 (4)
	05 0D A0 1D 0D A0 00000000G 00 1B 0D A2 0000G CF 14 0000G CF 50	0000' CF E9 00002 04 AC D0 00007 02 E0 00008 03 E1 00010 04 AC D0 00015 1\$: 0D AO E9 00019 000582D0 8F DD 0001D 06 11 00023 06 11 00023 01 FB 0002B 3\$: 04 AC D0 00032 4\$: 01 88 00036 01 E1 0003A 01 E1 0003A 01 E1 0003A 02 FB 00045 50 E9 0004A 0000' CF 9F 0004D 52 DD 00051 02 FB 00053 07 11 00058	ENTRY REPLYMAIN_BROADCAST_LOCAL, Save R2 BLBC IN_VAXCLUSTER, 4\$ MOVL MESSAGE, R0 BBS #2, 13(R0), 1\$ BBC #3, 13(R0), 4\$ MOVL MESSAGE, R0 BLBC 13(R0), 2\$ PUSHL #361168 BRB 3\$ PUSHL #361160 CALLS #1, LIB\$SIGNAL MOVL MESSAGE, R2 BISB2 #1, 13(R2) BBC #1, 13(R2), 5\$ PUSHAB NODENAME_DESC PUSHAB R2 CALLS #2, REPL®BRD_FORMAT BLBC STATUS, 6\$ PUSHAB NODENAME_DESC PUSHAB R2 CALLS #2, REPLPBRD_IO BRB 6\$ MOVL #361152, STATUS BISL2 #327680, R0 RET	0430 0469 0471 0473 0475 0475 0480 0483 0484 0486 0486 0489 0491 0492

; Routine Size: 105 bytes, Routine Base: \$CODE\$ + 02C3

```
OPCSREPLYMAIN
VO4-000
                   REPLY command main module replymain_fuldev (name : $ref_bblock)
                                                                                                        VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1
                            GLOBAL ROUTINE replymain_fuldev (name : $ref_bblock) : NOVALUE =
   %SBTTL 'replymain_fuldev (name : $re
                              Functional description:
                                      Convert terminal name to full (SCS) device name. Make sure that a device name which fails contains a valid SCS nodename for a node in our cluster, plus at least three more letters (e.g. DELPHI$TTO)
                               Input:
                                      name - Address of dynamic string descriptor for input name
                               Implicit Input:
                                      None.
                              Output:
                                      name - Receives a new dynamic string if we find the device on our system
                               Implict output:
                                      None.
                              Side effects:
                                      None.
                              Routine value:
                                      None.
                            BEGIN
                                                                                     ! Start of replymain_fuldev
                            LOCAL
                                 len,
                                 ptr.
                                 desc : VECTOR [2, LONG],
                                 status:
                              If the input string is not dynamic, scream and shout.
                            If .name [dsc$b_class] NEQ dsc$k_class_d
                            THEN
                                 $signal_stop (ss$_badparam);
                              See if we can get a local device name from the input
                            If (status = $getdvi (devnam=.name, itmlst=dvi_items))
                            THEN
                                 BEGIN
                                   Copy the dvi string to the output
```

VO

```
B 10
OPCSREPLYMAIN
                    REPLY command main module
                                                                                  16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
                                                                                                                  VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32:1
                                                                                                                                                                Page 20 (5)
V04-000
                    replymain_fuldev (name : $ref_bblock)
                                   desc [0] = .dvi_terminal_len;
desc [1] = dvi_terminal_buf;
IF NOT (status = str$copy_dx (.name, desc))
                                    THEN
                                         $signal_stop (.status);
                                    RETURN;
   END:
                                 If we are not in a VAXcluster, nothing more to do with the name. It is wrong.
                               IF NOT .in_VAXcluster
                                    $signal_stop (.status);
                                 Not a local device, make sure it looks somewhat like a valid remote device. For the sake of argument, imagine that a valid remote device name looks like 'innnnnnsxxx' where 'innnnnn' is a node which is actually in our cluster and 'xxx' is a least three letters (can any valid terminal be shorter than TTO?)
                              len = .name [dsc$w_length];
ptr = .name [dsc$a_pointer];
                               p = CH$FIND_CH (.len, .ptr, %C '$');
                                                                                             ! Find the dollar sign
                                 If there is no dollar sign, or if there are fewer than three letters after the "$", or the "$" is the
                                 first letter then there is no such device.
                               IF .p EQL 0
                                OR
                                   .p EQL .ptr
                                    $signal_stop (opc$_val@err, 1, .name, ss$_nosuchdev);
                               IF .len-(.p-.ptr-1) LSS 3
                               THEN
                                    $signal_stop (opc$_valuerr, 1, .name, ss$_nosuchdev);
                                 Found something that could be a node name, remove the "$xxx" from the string
                               len = .p - .ptr;
                                 If any leading underscores, skip over them
                              p = CH$FIND_NOT_CH (.len, .ptr, %C '_');
IF .p NEQ 0
                               THEN
                                    len = .len - (.p - .ptr);
                                    Ptr = .p;
                               IF .len LSS 0
                                    $signal_stop (opc$_valuerr, 1, .name, ss$_nosuchdev);
                                 Ok, we should have a good node name, try it out by doing a $GETSYI on the node (any info will do)
                               desc [0] = .len;
desc [1] = .ptr;
                               IF NOT (status = $getsyi (nodename=desc, itmlst=syi_items))
   610
                              THEN
```

OPC

V04

VAX-11 Bliss-32 V4.0-742 [OPCOM.SRC]REPLYMAIN.B32;1

OPCSREPLYMAIN VO4-000

\$signal_stop (opc\$_valuerr, 1, .name, .status);

Ssi We've have would assum expen-thing RETURN; END; We've got something that looks like a good name, but of course it could be _DELPHI\$DUA169:. We seem to have two choices. One is to make some assumptions about what a terminal name looks like, the other would be to actually talk to the other node and see if it has the device. It isn't a good idea to assume anything about a device name (boy have we learned that lesson!), and it seems to be pretty expensive to have a chat with the other node. Actually, we have a third choice, which is to leave things as they stand. If the guy really wants to know if he succeeded, he will use /NOTIFY.

! End of replymain_fuldev

						.EXTRN	STR\$COPY_DX		
	57 5E 53 02	00000000G 04 03	00 08 AC A3 04	0FC 00000 9E 00002 C2 00009 D0 0000C 91 00010 13 00014		.ENTRY MOVAB SUBL2 MOVL CMPB BEQL	REPLYMAIN_FULDEV, LIB\$STOP, R7 #8, SP NAME, R3 3(R3), #2	Save R2,R3,R4,R5,R6,R7	0493
		0000		DD 00016 11 00018 7C 0001A 7C 0001C 9F 0001E DD 00022 7C 00024	1\$:	PUSHL BRB CLRQ CLRQ PUSHAB	#20 4\$ -(SP) -(SP) DVI_ITEMS R3		0540 0544
0000000G	00 56 1D 6E AE	0000:	377C53E80056FFF20556	DO 0002D E9 00030 DO 00033		PUSHL CLRQ CALLS MOVL BLBC MOVL	-(SP) #8, SYS\$GETDVI RO, STATUS STATUS, 2\$ DVI_TERMINAL_LEN, DVI_TERMINAL_BUF, #^M <r3,sp> #2, STR\$COPY_DX RO, STATUS STATUS</r3,sp>	DESC	0550
04 0000000G	00 56 06	0000° 0000° 4008	8F 02 50 56	BB 0003E FB 00042 D0 00049 E9 0004C 04 0004F		BLBC MOVL MOVAB PUSHR CALLS MOVL BLBC RET	M^M <r3,sp> #2, STR\$COPY_DX R0, STATUS STATUS, 3\$</r3,sp>	DESC+4	0550 0551 0552
	67	0000	CF 56 01	E8 00050 DD 00055 FB 00057	2\$: 3\$: 4\$:	BLBC RET BLBS PUSHL CALLS	IN VAXCLUSTER, 5\$ STATUS #1, LIB\$STOP		0554 0560 0562
62	54 52 54	04	6334205115CC25A051F	04 0005A 3C 0005B D0 0005E 3A 00062 12 00066 D4 00068	5\$:	RET MOVZWL MOVL LOCC BNEQ CLRL	(R3), LEN 4(R3), PTR #36, LEN, (PTR) 6\$ R1		0568 0569 0570
	55 52		51 55 20	DO 0006A 13 0006D D1 0006F 13 00072	6\$:	MOVL BEQL CMPL	R1, P 9\$ P, PTR 9\$		0575 0577
50	55 51 51	02	52 A0 54 1F	C3 00074 9E 00078 D1 0007C 19 0007F		BEQL SUBL3 MQVAB CMPL BLSS	PTR, P, R0 2(R0), R1 LEN, R1 9\$		0580
	54		50	DO 00081		MOVL	RO, LEN		: 0586

OPCSREPLYMAIN	REPLY command main mod replymain_fuldev (name	ule : \$ref_bblock	D 10 16-Sep-1984 01:44:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:50:54 [OPCOM.SRC]REPLYMAIN.B32;1	Page 2
	62	54 5F	8F 3B 00084 SKPC #95, LEN, (PTR) 02 12 00089 BNEQ 7\$ 51 D4 0008B CLRL R1 51 D0 0008D 7\$: MOVL R1, P 0A 13 0009C BEQL 8\$ 55 C3 00092 SUBL3 P, PTR, R0 50 C0 00096 ADDL2 R0, LEN 55 D0 00099 MOVL P, PTR 54 D5 0009C 8\$: TSTL LEN 07 18 0009E BGEQ 10\$ 8F 3C 000A0 9\$: MOVZWL #2312, -(SP)	: 0590
		55	51 D4 0008B 51 D0 0008D 7\$: MOVL R1, P	1
	50	52	0A 13 00090 BEQL 8\$ 55 C3 00092 SUBL3 P, PTR, RO	: 059
		52 54 52	50 CO 00096 ADDL2 RO, LEN 55 DO 00099 MOVL P, PTR 54 D5 0009C 8\$: TSTL LEN 07 18 0009E BGEQ 10\$	059
		7E 0908	07 18 0009E 8F 3C 000AO 9\$: BGEQ 10\$ MOVZWL #2312, -(SP) BRB 11\$: 0599
	04	6E AE	54 DO 000A7 108: MOVI LEN DESC	0600 0600 0600
		0000	CF 9F 000B2 PUSHAB SYI_ITEMS AE 9F 000B6 PUSHAB DESC	
	0000000G	00 56 0F	56 E8 000C5 BLBS STATUS, 12\$	
		67 0005825C	56 DD 000C8	060

```
E 10
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
VO4-000
                     REPLY command main module replymain_init routine
                                                                                                                       VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32:1
                                                                                                                                                                       Page 23 (6)
                                                                                                 %SBTTL 'replymain_init routine'
                                GLOBAL ROUTINE replymain_init =
   $\begin{align*}
545678901234567890123456789012345678901234567890123456789012345678901234567890123456789
                                  Functional description:
                                           This is the initialization routine for REPLY. Various common initializations are done.
                                   Input:
                                           None.
                                   Implicit Input:
                                           None.
                                   Output:
                                           None.
                                   Implict output:
                     0638
0639
0640
0641
0642
0643
0644
0646
0649
0650
                                           None.
                                   Side effects:
                                           None.
                                   Routine value:
                                           None.
                                BEGIN
                                                                                                 ! Start of replymain_init
                                LOCAL
                                     ptr : $ref_bblock,
                                   Some routines which are shared with OPCOM need to know whether REPLY is running or OPCOM is running.
                     0657
0658
0659
0660
0661
0662
0663
0664
0665
0666
0667
0668
                                   Let them know.
                                reply_image = 1;
                                   Do a $GETJPI to get information about the current process
                                If NOT (status = $getjpi (itmlst=jpi_items))
                                     $signal_stop (.status);
                                   Get the actual length of the username, since it is blank padded to 12 bytes
                                ptr = CH$fIND_CH (12, jpi_username_buf, %C ' ');
If .ptr NEQ 0
THEN
                                      jpi_username_len = .ptr - jpi_username_buf;
                                  Do a $GETSYI to get information about the current system
```

```
OPCSREPLYMAIN
VO4-000
                                                                            16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
                   REPLY command main module
                                                                                                         VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1
                                                                                                                                                    Page
                   replymain_init routine
                   0676
0677
0678
0679
                             IF NOT (status = $getsyi (itmlst=syi_items))
                            THEN
                                 $signal_stop (.status);
                   0680
                               Get the length of the node name, since it is blank padded to 8 bytes
                   0681
                   0682
0683
                            ptr = CH$FIND_CH (8, nodename_buf, %C ' ');
IF .ptr NEQ 0
THEN
   690
                   0685
                                 nodename_desc [dsc$w_length] = .ptr - nodename_buf;
                   0686
0687
                               If the SCS nodename is null, try to translate SYS$NODE to find the DECnet name. Remove the "' and "::"
                   0688
                               from the translated name.
                   0689
                   0690
                             IF .nodename_desc [dsc$w_length] EQL 0
                   0691
0692
0693
                             THEN
   698
                                  IF NOT (status = $trnlog (lognam=ascid_SYSNODE, rsllen=tranlog_desc, rslbuf=tranlog_desc, dsbmsk=6))
                   0694
   699
                   0695
   700
                                      $signal_stop (.status);
   701
                   0696
                                  IF .status EQL ss$_normal
                                                                                      ! If we translated, remove the underscores and colons
                   0697
                                 THEN
   702
   703
                   0698
                   0699
   704
                                      ptr = CH$fIND_NOT_CH (.tranlog_desc [dsc$w_length], .tranlog_desc [dsc$a_pointer], %C '_');
    705
                   0700
                                      IF .ptr NEQ 0
   706
                                      THEN
                   0701
   707
                   0702
0703
                                           BEGIN
   708
                                           tranlog_desc [dsc$w_length] = .tranlog_desc [dsc$w_length] - (.ptr - .tranlog_desc [dsc$a_pointe
   709
                   0704
                                           tranlog_desc [dsc$a_pointer] = .ptr;
                   0705
   710
                   0706
                                      ptr = CH$fIND_CH (.tranlog_desc [dsc$w_length], .tranlog_desc [dsc$a_pointer], %C ':');
                   0707
   712
                                      IF .ptr NEQ 0
                   0708
                                      THEN
                   0709
                                      tranlog_desc [dsc$w_length] = .ptr - .tranlog_desc [dsc$a_pointer];
nodename_desc [dsc$w_length] = .tranlog_desc [dsc$w_length];
                   0710
   715
                   0711
   716
                                      nodename_desc [dsc$a_pointer] = .tranlog_desc [dsc$a_pointer];
                   0712
0713
                                      END:
                                 END:
   718
                   0714
0715
   720
721
722
723
724
725
726
727
730
731
732
733
                               Do a $GETDVI to get the name of the command terminal.
                   0716
0717
                             IF NOT (status = $getdvi (devnam=ascid_SYSCOMMAND, itmlst=dvi_items))
                   0718
0719
                            THEN
                                 $signal_stop (.status);
                   0720
0721
0722
0723
                             IF NOT .devchar [dev$v_trm]
                                                                                      ! If not a terminal, change to 'nodename Batch'
                             THEN
                                 BEGIN
                                 dvi_terminal_len = 6 + .nodename_desc [dsc$w_length];
                                 CH$COPY (.nodename_desc [dsc$w_length], .nodename_desc [dsc$a_pointer], 6, UPLIT BYTE ('Batch'), 0, .dvi_terminal_len, dvi_terminal_buf);
                                 batch_mode = true;
                                 END:
                             RETURN .status;
                                                                                      ! End of replymain_init
```

OP

VO

OP

OPCSREPLYMAIN VO4-000

							.PSECT	\$PLIT\$,NOWRT,NOEXE,2	
	68	63	74 61	42 20	00168	P.ABU:	.ASCII	\ Batch\	:
							.EXTRN	SYS\$GETJPI, SYS\$TRNLOG	
							.PSECT	\$CODE\$,NOWRT,2	
				07F	00000		.ENTRY	REPLYMAIN_INIT, Save R2,R3,R4,R5,R6,R7,R8,-	: 0618
	00006	5A CF	0000'	CF 91 01 DC 7E 76 7E DC	00002 00007 00000 00000 40000E		MOVAB MOVL CLRQ CLRL	REPLYMAIN_INIT, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10 TRANLOG_DESC, R10 #1, REPLY_IMAGE -(SP) -(SP)	0659 0663
	00000000	00	48	7E 77	00010 00013 00015 00017		CLRQ CLRL	JPI ITEMS -(SP) -(SP) #7. SYSSGETJPI	
		00 59 61		50 DO	0 0001E		MOVL	RO, STATUS STATUS, 5\$ #32, #12, JPI_USERNAME_BUF	
04	AA	61 00		20 3/	A 00024 2 00029		MOVL BLBC LOCC BNEQ CLRL MOVL BEQL MOVAB	13	0669
		52		51 DO 51 DO 09 1: AA 9! 50 C: 7E 7	0002B 0002D	15:	MOVL	R1 R1, PTR	0470
DO	AA	50 52	04	AA 9	5 00030 E 00032		MOVAB	JPI_USERNAME_BUF, RO	: 0670 : 0672
00	^^	,,		7E 7	3 00036 C 0003B 4 0003D	2\$:	SUBL3 CLRQ CLRL	RO, PTR, JPI_USERNAME_LEN -(SP) -(SP)	0676
			64	AA 91 7E 76 7E 76	0003F 00042		PUSHAB	SYI ITEMS -(SP)	
	00000006	00		7E D4	4 00044		CLRL	-(SP) #7, SYS\$GETSYI	
	00000000	00 59		50 D	00040		MOVL	RO. STATUS	
E8	AA	32		50 DO 59 E9 20 3/ 02 12	A 00053 2 00058		LOCC	STATUS, 5\$ #32, #8, NODENAME_BUF 3\$	0682
		52			4 0005A	3\$:	CLRL MOVL BEQL MOVAB SUBW3 TSTW	R1 R1, PTR 4\$	
			E8	09 13 AA 9	0005F 00061 00065		BEQL	NODENAME BUF. RO	0683
F8	AA	50 52	F8	50 A	3 00065 5 0006A	48:	SUBW3 TSTW	RO, PTR, NODÉNAME_DESC NODENAME_DESC	0690
				55 17 06 DI	2 0006D 0006F		BNEQ PUSHL	NODENAME_BUF, RO RO, PTR, NODENAME_DESC NODENAME_DESC 10\$	0693
				7E 70	00071		PUSHL	-(SP) R10 R10	
			0000	CF 9	00075		BNEQ PUSHL CLRQ PUSHL PUSHL PUSHAB	ASCID SYSNODE	
	0000000G	00 59 56 01		51 DC 51 DC	00077 00078 00082 00085		LALLS	#6, SYS\$TRNLOG RO, STATUS STATUS, 11\$	
		01		59 D	00085	5\$:	CMPL	STATUS, 115 STATUS, #1 105	0696
04	BA	6A	5F	8F 3	1 00088 2 0008B 8 0008D		MOVL BLBC CMPL BNEQ SKPC	#95, TRANLOG_DESC, aTRANLOG_DESC+4	0699

OPCSREPLYMAIN VO4-000	REPLY	comman main_in	nd main mod	ule				1	H 10 6-Sep-1 4-Sep-1	984 01:44 1984 12:50	:54 VAX-11 Bliss-32 V4.0-742 :54 COPCOM.SRCJREPLYMAIN.B32;1	Page 26 (6)
				52		02 51 51	1200	00093 00095 00097 0009A	6\$:	BNEQ CLRL MOVL BEQL SUBL3 ADDW2	6\$ R1 R1, PTR	0700
		50	04	AA 6A		52	Ċ3	0009C		SUBL3	PTR, TRANLOG DESC+4, RO	: 0700 : 0703
	C	4 BA	04	AA 6A		52 3A 02	A0 00 3A 12	8A000	7\$:	MOVL LOCC BNEQ	PTR, TRANLOG DESC+4, RO RO, TRANLOG DESC PTR, TRANLOG DESC+4 #58, TRANLOG DESC, atranlog Desc+4 8\$ R1	0704 0706
				52		51	D4	000AF	88:	CLRL	R1 R1, PTR	
		6A	F8 FC	52 AA AA	04 04	05 AA 6A	13 A3 B0 D0	000B1 000B4 000B6 000BB	9\$:	MOVL LOCC BNEQ CLRL MOVL SUBW3 MOVW MOVL CLRQ PUSHAB PUSHAB	TRANLOG_DESC+4, PTR, TRANLOG_DESC TRANLOG_DESC, NODENAME DESC TRANLOG_DESC+4, NODENAME_DESC+4	0707 0709 0710 0711 0717
			,,,	^^	04	7E 7E	70	000BF 000C4 000C6	10\$:	CLRQ	-(SP) -(SP)	0717
					0000	AA CF 7E	9F	00008		PUSHAB PUSHAB	DVI_ITEMS ASCID_SYSCOMMAND -(SP)	
			0000000G	00 59 0A		08 50 59	FB DO E8	000CB 000CF 000D1 000D8 000DB		CLRQ CALLS MOVL BLBS PUSHL	#8, SYS\$GETDVI RO, STATUS STATUS, 12\$	
			0000000G	00		59	DD FB	000DE 000E0	115:	CALLS	STATUS #1, LIB\$STOP	0719
		30	08 80 80	AA AA AA 58	F8	02 AA 06 AA	04 E0 C0 C0	000E7 000E8 000ED		DET	#2, DEVCHAR, 14\$ NODENAME_DESC, DVI_TERMINAL_LEN #6, DVI_TERMINAL_LEN NODENAME_DESC, R8 DVI_TERMINAL_LEN, R7 DVI_TERMINAL_BUF, R6 R8, @NODENAME_DESC+4, #0, R7, (R6)	0720 0723
57		00	FC	58 57 56 BA	F 8 8 C 9 O	AA 58 66	50 5E	000FA 000FE 00102 00108		MOVL MOVAB MOVC5	DVI_TERMINAL_LEN, R7 DVI_TERMINAL_BUF, R6 R8, anodename_desc+4, #0, R7, (R6)	0724 0725 0724
57		00	0000	56 57 CF		0E 58 58 06 66 01 59	18 C0 C2 2C			BGEQ ADDL2 SUBL2 MOVC5	13\$ R8, R6 R8, R7 W6, P.ABU, W0, R7, (R6)	
			10	AA 50		01 59	D0 D0 04	00118 00119 00110 00120	13\$: 14\$:	MOVL MOVL RET	#1, BATCH MODE STATUS, RO	0726 0729 0730
; Routine Size:	289	bytes,	Routine	Base:	SCODES	+ (0404					

```
I 10
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
VO4-000
                     REPLY command main module
                                                                                                                       VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32:1
                                                                                                                                                                        Page 27
                     replymain_logfile
                                GLOBAL ROUTINE replymain_logfile =
                                                                                                            %SBTTL 'replymain_logfile'
    Functional description:
                                           This routine controls closing and opening the operator's log file
                                   Input:
                                           None.
                                   Implicit Input:
                                           CLI parameters
                                   Output:
                                           None.
                                   Implicit output:
                                           None.
                                   Side effects:
                     0754
0755
0756
0757
0758
0759
0760
    760
761
762
763
764
765
766
767
776
777
777
777
777
                                           None.
                                   Routine value:
                                           None.
                     0761
0762
                                BEGIN
                                                                                                 ! Start of replymain_logfile
                                REGISTER
                                     mlen,
                                                                                                    Output message length
                     0766
0767
                                     mptr
                                                      : $ref_bvector;
                                                                                                  ! Output message pointer
                                LOCAL
                                     message : $bblock [128], ! Buffer to message_desc : VECTOR [2, LONG] PRESET ([1] = message),
                                                                                                 ! Buffer to build message
                                     status:
    778
779
                                   Initialize the message
    780
781
                                   NOTE: We are using an internal interface to OPCOM which is subject to change!
    782
783
784
785
                                CH$FILL (0, opc$k_logfile_min_size, message); !
message [opc$b_rqstcode] = opc$ x_logfile;
message [opc$b_scope] = opc$k_system;
If_cli$present (ascid_LOG)
                                                                                               ! Init all fixed fields to zero
    786
787
   788
789
                                     $bblock [message [opc$l_rq_options], opc$v_initlog] = true
    790
791
                                     $bblock [message [opc$l_rq_options], opc$v_closelog] = true;
    792
                                   Move the sending terminal name
```

OP VO

OPCSREPLYMAIN VO4-000	replyma	command main mo				16-	10 Sep-198 Sep-198	4 01:44	:54 VAX-11 Bliss-32 V4.0-742 :54 COPCOM.SRCJREPLYMAIN.B32;1	Page	(7)
794 795 796 797 798 799 800 801 802 803 804 805 806 807	0788 0789 0790 0791 0792 0793 0794 0795 0796 0797 0798 0799 0800 0801	Send the mo	essage to us = \$snd stop (.st	erminal l yteoffse OPCOM opr (msgl	buf, t (op	mptr [1]) c\$t_logfi	sc))	Get len Store t Append + 1 +	put pointer to start of text area gth of terminal name he ASCIC length the name to the buffer .mlen; ! Save total length replymain_logfile		
16	01	00 04 08 00000000 0E 0E 0E 000000000 00000000	06 AE 50 56 60 CF 6E	0000° 0000° 18 04	0	E 00002 00007 E 00009 0 00013 0 00015 B 00026 9 00029 1 00027 8 00037 0 00037 0 00037 0 00046 4 00046 4 00046 6 00056 0 00059 8 00059 8 00059	\$: \$:	.ENTRY MOVAB CLRL MOVAB MOVC5 MOVW PUSHAB CALLS BISB2 BISB2 BISB2 BISB2 MOVAB MOVAB MOVAB CALLS MOVAB CLRL PUSHAB CALLS RET MOVL RET	REPLYMAIN_LOGFILE, Save R2,R3,R4,R5,R6 -132(SP),SP MESSAGE_DESC MESSAGE, MESSAGE DESC+4 W0, (SP), W0, W30, MESSAGE W267, MESSAGE ASCID_LOG W1, CII\$PRESENT R0, 1\$ W1, MESSAGE+6 2\$ W2, MESSAGE+6 MESSAGE+6 MESSAGE+26, MPTR DVI TERMINAL_LEN, MLEN MLEN, (MPTR) MLEN, DVI TERMINAL BUF, 1(MPTR) 27(R6), MESSAGE_DESC -(SP) MESSAGE DESC W2, SYS\$SNDOPR STATUS, 3\$ STATUS W1, LIB\$STOP		073 077 077 078 078 078 078 079 079 079 079

Routine Base: \$CODE\$ + 0525

; Routine Size: 103 bytes,

OPC VO4

......

```
OPCSREPLYMAIN
VO4-000
                 REPLY command main module replymain_main routine
                                                                                                VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32:1
                          GLOBAL ROUTINE replymain_main =
                                                                               %SBTTL 'replymain_main routine'
                            Functional description:
                                   This is the main routine for REPLY. When REPLY is started, control is transfered here.
                            Input:
   None.
                            Implicit Input:
                                   None.
                            Output:
                                   None.
                            Implict output:
                                   None.
                            Side effects:
                                   None.
                            Routine value:
                                   None.
                          BEGIN
                                                                               ! Start of replymain_main
                          LOCAL
                              status;
                            Perform common initializations
                          replymain_init ();
                            If one of the broadcast qualifiers is used, call the broadcast routine
                          If cli$present (ascid_ALL)
                              clispresent (ascid_TERMINAL)
                               cli$present (ascid_USERNAME)
                              RETURN replymain_broadcast ();
                            If enable or disable operator's terminal, call that routine
                              cli$present (ascid_DISABLE)
```

OPCSREPLYMAIN VO4-000	REPLY command main module replymain_main routine		L 10 16-Sep-1984 01:44 14-Sep-1984 12:50	:54 VAX-11 Bliss-32 V4.0-742 :54 COPCOM.SRCJREPLYMAIN.B32;1	Page 30 (8)				
866 867 868 869 870 871 872 873 874 875 876 877 878 887 881 882 883 884 885 884 885 886 887 888 889 889 890 891 892 893	0859 2 clispresent (as 0860 2 THEN RETURN replymate 0862 2 1 1	in_oprenable (); uest, dispatch to to nt (ascid_LOG); i\$_negated in_logfile (); status, do it cid_STATUS) in_status (); sume it is one of t LANK_TAPE, /INITIAL	he logfile action room ! We have ! We have ! We have	e logfile action routine ! We have a /LOG ! We have a /NOLOG e miscellaneous replies to requests, /E_TAPE, /PENDING or /TO. ! End of replymain_main					
	FE6A CF 62 0A 62 0	00000000 00 9E 0 00 FB 0 0000' CF 9F 0 01 FB 0 50 E8 0	0000 .ENTRY 0002 MOVAB 0009 CALLS 00012 CALLS 0015 BLBS 0016 CALLS 0017 BLBS 0017 BLBS 0018 PUSHAB 0010 CALLS 0017 BLBS 0022 PUSHAB 0020 CALLS 0021 RET 0031 RET 0032 2\$: PUSHAB	REPLYMAIN MAIN, Save R2 CLISPRESENT, R2 #0, REPLYMAIN_INIT ASCID_ALL #1, CCISPRESENT R0, 1\$ ASCID_TERMINAL #1, CCISPRESENT R0, 1\$ ASCID_USERNAME #1, CCISPRESENT R0, 2\$ #0, REPLYMAIN_BROADCAST ASCID_DISABLE #1, CCISPRESENT R0, 3\$ ASCID_ENABLE #1, CCISPRESENT R0, 4\$ #0, REPLYMAIN_OPRENABLE ASCID_LOG #1, CCISPRESENT	0802 0842 0846 0848 0850 0852 0857 0859 0861 0866				

OPCSREPLYMAIN VO4-000	REPLY command main mod replymain_main routine				M 10 16-Sep 14-Sep	-1984 01:44 -1984 12:50	:54	VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1	Pag	je 3	
	0000000G FF35	09 8F CF		50 50 06 00	E8 0005 12 0005 FB 0005	3 6 0 5 5 \$:	BLBS CMPL BNEQ CALLS RET	STATUS STATUS 6\$ #0, RE	S. #CLIS_NEGATED EPLYMAIN_LOGFILE		086 086 087
	0000v	62 06 CF	0000*	CF 01 50	9F 0006 FB 0006 FB 0006	5 6\$:	PUSHAB CALLS BLBC CALLS RET	#1. CI RO. 75 #0, RE	STATUS ISPRESENT PLYMAIN_STATUS		087
	0000v	CF		00	FB 0007	5 7\$:	CALLS	#0, RE	PLYMAIN_REPLY		088 088
; Routine Size	: 123 bytes, Routine	Base:	\$CODE\$	+ 0	58c						

```
N 10
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
V04-000
                                                                                                                        VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1
                      REPLY command main module
                      replymain_oprenable
   GLOBAL ROUTINE replymain_oprenable =
                     %SBTTL 'replymain_oprenable'
                                   Functional description:
                                           This routine controls enabling or disabling operator terminals.
                                   Input:
                                           None.
                                   Implicit Input:
                                           CLI parameters
                                   Output:
                                           None.
                                   Implicit output:
                                           None.
                                   Side effects:
                                           None.
                                   Routine value:
                                           None.
                                BEGIN
                                                                                                  ! Start of replymain_oprenable
                                REGISTER
                                      mlen,
                                                                                                    Output message length
                                                                                                  ! Output message pointer
                                                      : $ref_bvector;
                                      mptr
                                LOCAL
                                      text : $dyn_str_desc, ! Dynamic s
message : $bblock [128], ! Buffer to
message_desc : VECTOR [2, LONG] PRESET ([1] = message),
                                                                                                    Dynamic string descr for message text
Buffer to build message
                                      idx,
                                      status
                                      type_keyword;
                                   Initialize the message
                                   NOTE: We are using an internal interface to OPCOM which is subject to change!
                                CH$FILL (0, opc$k_oprenable_min_size, message); ! Init all fixed fields to zero message [opc$b_rqstcode] = opc$x_oprenable; message [opc$b_scope] = opc$k_system; If cli$present (ascid_DISABLE) THEN
                                      $bblock [message [opc$l_rq_options], opc$v_disable] = true;
type_keyword = ascid_DISABLE;
```

OP VO

```
B 11
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
OPCSREPLYMAIN
VO4-000
                  REPLY command main module
                                                                                                     VAX-11 Bliss-32 V4.0-742
[OPCOM.SRC]REPLYMAIN.B32:1
                                                                                                                                              Page 33
                  replymain_oprenable
                  0944
0945
0946
0947
0948
0949
  EL.SE
                                BEGIN
                                type_keyword = ascid_ENABLE;
IF NOT cli$present (ascid_TEMPORARY)
                                    $bblock [message [opc$l_rq_options], opc$v_permoper] = true;
                                END:
                             Move the sending terminal name
                                                                                    Set output pointer to start of text area
Get length of terminal name
Store the ASCIC length
                           mptr = message [opc$t_oprenable_opr];
                           ! Save total length
                             Set the attention mask according to the appropriate qualifier
                           IF NOT cli$get_value (.type_keyword, text)
                           THEN
                                  The qualifier is /ENABLE or /DISABLE without any keywords. Operate on all operators.
                                BEGIN
                                message [opc$l_attnmask1] = known_attn_mask1;
                                message [opc$l_attnmask2] = known_attn_mask2;
                           ELSE
                  0974
0975
                                  The qualifier is /xABLE=(...), set the bit for each specified operator
                  0976
0977
                               DO $bblock [message [opc$l_attnmask1], 0, share_lookup_oper_bit (text), 1, 0] = 1 UNTIL NOT cli$get_value (.type_keyword, text);
                  0978
0979
                             Send the message to OPCOM
                  0980
                  0981
                           If NOT (status = $sndopr (msgbuf=message_desc))
                           THEN
                               $signal_stop (.status);
                           RETURN ss$_normal;
                           END:
                                                                                   ! End of replymain_oprenable
```

		03FC 00000	.ENTRY	REPLYMAIN_OPRENABLE, Save R2,R3,R4,R5,R6,-R7,R8,R9	: 0887
	59 000000000 58 000000000	00 9E 00002 00 9E 00009 CE 9E 00010 8F DO 00015	MOVAB MOVAB	CLÍSGÉT VALUE, R9 CLISPRESENT, R8 -140(SP), SP	
F8	5E 020E0000	8F DO 00015	MOVL	#34471936, TEXT TEXT+4	0925
04	AE 08	AD D4 0001D 7E D4 00020 AE 9E 00022	CLRL	MESSAGE_DESC MESSAGE, MESSAGE_DESC+4	0927

PCSREPLYMAIN 04-000	REPLY co replymai	mmand n_opr	main mod enable	ule				16	-Sep-	1984 01:44: 1984 12:50	:54 VAX-11 Bliss-32 V4.0-742 :54 [OPCOM.SRC]REPLYMAIN.B32;1	Page (
1E		00		6E	00	00	20	00027		MOVC5	#0, (SP), #0, #30, MESSAGE	; 09:
			08	AE 68	010A 0000	AE 8F CF 01	80 9F FB	00038		MOVW PUSHAB CALLS	#266, MESSAGE ASCID DISABLE #1, CLISPRESENT R0, 18	09
			0E	68 0B AE 57	0000	01 CF 13	88 9E			CALLS BLBC BISB2 MOVAB BRB	ASCID_DISABLE, TYPE_KEYWORD	094 094 097 097
				57 68 04	0000:	CF CF O1	9E 9F FB	00049 0004E 00052	1\$:	BRB MOVAB PUSHAB CALLS	ASCID_ENABLE, TYPE_KEYWORD ASCID_TEMPORARY #1, CLI\$PRESENT R0, 2\$	096
			0E	AE 50 60	0000	OZ AE CF	E8 9E 00 90	00050	2\$:	CALLS BLBS BISB2 MOVAB MOVL	#2, MESSAGE+6 MESSAGE+26, MPTR DVI_TERMINAL_LEN, MLEN	: 09 : 09 : 09
	01	AO	0000	CF 6E	1B F8	01 02 AE CF 56 AD 57	90 28 9E 9F DD	00068 0006F 00073		MOVL MOVB MOVC3 MOVAB PUSHAB PUSHL	#2, MESSAGE+6 MESSAGE+26, MPTR DVI TERMINAL_LEN, MLEN MLEN, (MPTR) MLEN, DVI TERMINAL_BUF, 1(MPTR) 27(R6), MESSAGE_DESC TEXT TYPE_KEYWORD #2, CLI\$GET_VALUE R0, 3\$ #16773631, MESSAGE+10	09 09 09 09 09
			12	69 OD AE	00FFF1FF 16	02 50 8F AE 18	FB E80	0007B 0007E		CLRL	#2, CLISGET_VALUE R0, 3\$ #16773631, MESSAGE+10 MESSAGE+14 5\$	09 09 09
		00	0000G 12	CF AE	F8	AD 01 50	9F FB E2	0008B 0008E 00093	3\$:	BRB PUSHAB CALLS BBSS PUSHAB	TEXT #1, SHARE_LOOKUP_OPER_BIT RO, MESSAGE+10, 4\$ TEXT	
				69 E8	F8	AD 57 02 50	9F DD FB E8	0009B	48:	PUSHAB PUSHL CALLS BLBS	TEXT TYPE_KEYWORD #2, CLI\$GET_VALUE R0, 3\$	09
		0	0000000G	00 0A	04	7E 02 50 50	94 9F	000A3 000A5 000A8	5\$:	CLRL	-(SP)	09
		0	0000000G	0A 00		50 50	E8 DD FB	000AF 000B2 000B4		CALLS BLBS PUSHL CALLS	MÈSSÁGE_DESC #2, SYS\$SNDOPR STATUS, 6\$ STATUS #1, LIB\$STOP	09
				50		01	04	000BB	6\$:	RET MOVL RET	#1, R0	09

; Routine Size: 192 bytes, Routine Base: \$CODE\$ + 0607

```
OPCSREPLYMAIN
VO4-000
                      REPLY command main module
                                                                                         16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
                                                                                                                          VAX-11 Bliss-32 V4.0-742
COPCOM.SRCJREPLYMAIN.B32;1
                                                                                                                                                                                  (10)
                      replymain_reply
                                 GLOBAL ROUTINE replymain_reply =
                                                                                                               *SBTTL 'replymain_reply'
  998
999
1000
1001
1002
1003
1004
1005
1006
1007
1008
1009
                                    Functional description:
                                            This routine controls enabling or disabling operator terminals.
                                    Input:
                                            None.
                                    Implicit Input:
                                            CLI parameters
                      1000
1001
1002
1003
1004
1005
1006
1007
1008
  1010
                                    Output:
  1011
  1012
                                            None.
  1014
                                    Implicit output:
  1015
  1016
1017
                                            None.
  1018
                                    Side effects:
                      1010
  1019
  1020
1021
1022
1023
1024
1025
1026
1027
1028
1029
                      1011
                                            None.
                      1012
                                    Routine value:
                      1014
                                            None.
                      1016
1017
                      1018
                                 BEGIN
                                                                                                    ! Start of replymain_reply
                      1019
                                 REGISTER
                                      mlen.
                                                                                                      Output message length
  1031
                                      mptr
                                                       : $ref_bvector;
                                                                                                    ! Output message pointer
  1032
1033
1034
1035
1036
1037
                                 LOCAL
                                      text : $dyn_str_desc, ! Dynamic somessage : $bblock [2048], ! Buffer to message_desc : VECTOR [2, LONG] PRESET ([1] = message),
                                                                                                       Dynamic string descr for message text
                                                                                                      Buffer to build message
                                      idx,
  1038
1039
1040
1041
1042
1043
                                       status,
                                       type_keyword;
                                    Initialize the message
                                    NOTE: We are using an internal interface to OPCOM which is subject to change!
  1044
                      1035
                      1036
1037
                                 CH$fILL (0, opc$k_reply_min_size, message);
message [opc$b_rqstcode] = opc$x_reply_min_size, message);
                                                                                                    ! Init all fixed fields to zero
  1046
                                                                              = opc$ x_reply;
= opc$k_system;
                      1038
                                 message [opc$b_scope]
  1048
                      1039
                                    find out which flavor of reply. The main routine calls us if it hasn't found something else, therefore
  1050
                                    if it isn't one of ours we need to return the bad status.
```

1051

SELECTONE clis_present Of

VO

```
OPC
VO4
```

```
16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
                                                                                                  VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1
OPC$REPLYMAIN
                  REPLY command main module
V04-000
                  replymain_reply
: 1053
: 1054
: 1055
                               [clispresent (ascid_ABORT)] :
                                                                       BEGIN
                                                                       message [opc$l_rq_options] = opc$_rqstabort;
                                                                       type_Keyword = ascid_ABORT;
  1056
1057
1058
                                                                       BEGIN
                               [cli$present (ascid_BLANK_TAPE)] :
                                                                       message [opc$l_rq_options] = opc$_blanktape;
type_keyword = ascid_BLANK_TAPE;
  1059
1060
1061
1062
1063
1064
1065
1066
1067
                               BEGIN
                               [clispresent (ascid_PENDING)] :
                                                                        message [opc$l_rq_options] = opc$_rqstpend;
                                                                        type_keyword = ascid_PENDING;
  1069
  1070
                               [clispresent (ascid_TO)] :
                                                                        BEGIN
                   062
1063
  1071
                                                                        message [opc$l_rq_options] = opc$_rqstcmplte;
  1072
                                                                        type_keyword = ascid_TO;
  1073
                   1064
  1074
                   1065
                               [OTHERWISE] :
                                                                        RETURN clis_ivverb;
                  1066
1067
  1075
                           TES:
  1076
  1077
                  1068
                             Move the request ID to the message
                  1069
  1078
  1079
                           IF NOT (status = cli$get_value (.type_keyword, text))
  1080
                  1071
                           $signal_stop (.status);
IF NOT (status = ots$cvt_ti_l (text, message [opc$l_rqstid]))
  1081
                                                                                 ! This is a required entity!
  1082
  1083
  1084
                               $signal_stop (opc$_valuerr, 1, text, .status);
  1085
  1086
1087
                             Move the sending terminal name
                  1078
  1088
                  1079
                                                                                   Set output pointer to start of text area
                           mptr = message [opc$t_reply_opr];
                           mlen = .dvi_terminal_len;
mptr [0] = .mlen;
                                                                                   Get length of terminal name
   1089
                  1080
   1090
                   1081
                                                                                   Store the ASCIC Length
                           CH$MOVE (.mlen, dvi_terminal_buf, mptr [1]); ! Append the namessage_desc [0] = $byteoffset (opc$t_reply_opr) + 1 + .mlen;
   1091
                                                                                   Append the name to the buffer
   1092
                                                                                                 ! Save total length
   1093
                           mptr = .mptr + 1 + .mlen;
   1094
   1095
   1096
1097
                             Move the reply text, if any
                  1088
1089
1090
1091
1092
1093
                           1098
   1099
   1100
   1101
  1102
1103
1104
1105
                               CH$MOVE (.text [dsc$w_length], .text [dsc$a_pointer], mptr [2]);
                   1095
                             Send the message to OPCOM
  1106
1107
1108
1109
                           IF NOT (status = $sndopr (msgbuf=message_desc))
                               $signal_stop (.status);
```

Page 37 (10)

OPCSREPLYMAIN VO4-000

: 1110 : 1111 : 1112

VAX-11 Bliss-32 V4.0-742 COPCOM.SRCJREPLYMAIN.B32;1

	1101 2 1102 2 RETURN 1103 1 END;	ss\$_normal;				!	End of	replymain_reply	
							.EXTRN	CLIS_PRESENT, CLIS_IVVERB OTS\$CVT_TI_L	
20	00	59 5E	000000006 00000000 0000 F7F4 020E0000 FC	00 9E CF 9E CE 9E 8F DO	00000 00002 00009 00010 00015 0001A 00022 00025 00027		MOVAB MOVAB MOVAB MOVAB MOVL CLRL CLRL MOVAB MOVC5	REPLYMAIN REPLY, Save R2,R3,R4,R5,R6,R7,R8,-; R9,R10,R1T CLISGET VALUE, R11 CLISPRESENT, R10 ASCID ABORT, R9 -2060TSP), SP #34471936, TEXT TEXT+4 MESSAGE DESC MESSAGE, MESSAGE DESC+4 #0, (SP), #0, #32, MESSAGE	1025 1027 1036
20			08 010D 0000000G	AE 8F BO 59 DD 01 FB 52 D1	00031 00033 00039 00040 00042		MOVW MOVL PUSHL CALLS	#269, MESSAGE #CLIS_PRESENT, R2 R9 #1, CLISPRESENT R2, R0	1037 1043 1045
			0005801C 2C	0D 12 8F D0 69 9E 70 11 A9 9F	00048 0004A 00052 00055	1\$:	CMPL BNEQ MOVL MOVAB BRB PUSHAB CALLS CMPL	#360476, MESSAGE+6 ASCID_ABORT, TYPE_KEYWORD 6\$ ASCID_BLANK_TAPE #1, CLISPRESENT R2, R0	1046 1047 1043 1049
			000581E3 2C 64	0E 12 8F DO A9 9E 57 11 A9 9F	00060 00062 0006A 0006E	2\$:	BNEQ MOVL MOVAB BRB PUSHAB CALLS CMPL BNEQ	#360931, MESSAGE+6 ASCID_BLANK_TAPE, TYPE_KEYWORD 6\$ ASCID_INITIALIZE_TAPE #1, CLI\$PRESENT R2, R0 3\$	1050 1051 1043 1053
			000581D3 64 00B8	OF 12	00079 0007B 00083 00087	3\$:	BNEQ MOVL MOVAB BRB PUSHAB CALLS CMPL BNEQ	#360915, MESSAGE+6 ASCID_INITIALIZE_TAPE, TYPE_KEYWORD 6\$ ASCID_PENDING #1, CLISPRESENT	1054 1055 1043 1057
			00058021 0088 0120	01 FB	8A000	45:	BNEQ MOVL MOVAB BRB PUSHAB CALLS CMPL BNEQ	R2, R0 4\$ #360481, MESSAGE+6 ASCID_PENDING, TYPE_KEYWORD 6\$ ASCID_TO #1, CCI\$?RESENT R2, R0 5\$	1058 1059 1043 1061
			00058029 0120	0F 12 8F D0 C9 9E	000AB 000AE 000B0 000B8		BNEQ MOVL MOVAB	#360489, MESSAGE+6 ASCID_TO, TYPE_KEYWORD	1062 1063

OPCSREPLYMAIN	REPLY comm	and main mod	ule				15	11 S-Sep- 4-Sep-	1984 01:44 1984 12:50	:54 VAX-11 Bliss-32 V4.0-742 :54 [OPCOM.SRC]REPLYMAIN.B32;1	Page 38 (10)
			50	000000006	08 8F	11 00 04 9F	000BD 000BF	58:	BRB MOVL RET	6\$ #CLIS_IVVERB, RO	: 1043 : 1065
			40	F8	AD 53	9F DD FB	000CA	6\$:	PLICHAR	TEXT TYPE KEYWORD	1070
			6B 58 7B	14	50 58 AE	D0	OOOCF		PUSHL CALLS MOVL BLBC PUSHAB PUSHAB	TEXT TYPE_KEYWORD #2, CLI\$GET_VALUE R0, STATUS STATUS, 9\$ MESSAGE+18	1073
		0000000G	00	1A F8	AD 020	9F FB	000D8 000DB		PUSHAB	#2. OTS\$CVT TI L	1073
			58 15	F8	58 58	E8 DD 9F	000E5 000E8 000EA		BLBS PUSHL PUSHAR	RO, STATUS STATUS, 7\$ STATUS TEXT #1	1075
		000000006	00	0005825C	AD 01 8F 04	DD DD FB	OOOEF		CALLS MOVL BLBS PUSHL PUSHAB PUSHL PUSHL CALLS	#1 #361052 #4, LIB\$STOP	
			57 56 67	0000		94 9E	000FC	7\$:	MOVAB		1079
	01 A	7 0000	67 CF 6E 57		AE CF 56 56 A6 A647	90 28 9E 9E	00101 00106 00109 00110		MOVL MOVB MOVC3 MOVAB MOVAB	MESSAGE+26, MPTR DVI TERMINAL_LEN, MLEN MLEN, (MPTR) MLEN, DVI TERMINAL_BUF, 1(MPTR) 27(R6), MESSAGE DESC 1(MLEN)[MPTR], MPTR	1079 1080 1081 1082 1083 1084
				01 F8 00A8	A647 AD C9 02	9F 9F	00119 00110		PUSHAB	1(MLEN)[MPTR], MPTR TEXT ASCID_P1	; 1084 ; 1089
			6B 67 50	F8 F8	AD AD	FB BO 3C	00123		CALLS MOVW MOVZWL ADDL2 MOVAB TSTW	TEXT ASCID_P1 #2, CCI\$GET_VALUE TEXT, (MPTR) TEXT, RO MESSAGE_DESC, RO 2(RO), MESSAGE_DESC	1090
			6E	02 F8	AD O7	9E B5 13	0012B 0012E 00132		MOVAB TSTW	IEAI	1092
	02 A	7 FC	BD	F8	AD 7E	28 04 9F	00135 00137 0013E	8\$:	MOVC3 CLRL	8\$ TEXT, aTEXT+4, 2(MPTR) -(SP)	1094 1098
		0000000G	00 58	04	95 50	FB DO	00140 00143 0014A		BEQL MOVC3 CLRL PUSHAB CALLS MOVL	#2, SYS\$SNDOPR RO, STATUS	
		0000000G	0A 00		58 58 01	E8 DD FB	00140 00150 00152	9\$:	PUSHL CALLS	MESSAGE DESC #2, SYS\$SNDOPR RO, STATUS STATUS, 10\$ STATUS #1, LIB\$STOP	1100
			50		01	FB 04 00 04	0012F 0013E 00137 00137 0013F 00140 00140 00150 00150 00150	10\$:	RET MOVL RET	#1, RO	1102

; Routine Size: 350 bytes, Routine Base: \$CODE\$ + 06C7

```
OPCSREPLYMAIN
VO4-000
                                                                                             16-Sep-1984 01:44:54
14-Sep-1984 12:50:54
                                                                                                                                VAX-11 Bliss-32 V4-0-742
COPCOM.SRCJREPLYMAIN.B32;1
                       REPLY command main module
                                                                                                                                                                                    Page 39 (11)
                       replymain_status
                       1104
1105
1106
1107
                                   GLOBAL ROUTINE replymain_status =
                                                                                                                    %SBTTL 'replymain_status'
                                     Functional description:
                        1108
1109
                                              This routine requests a display of status
                        110
                                      Input:
                       1112
1113
1114
1115
1116
1117
                                              None.
                                      Implicit Input:
                                              CLI parameters
                       1118
                                      Output:
                                              None.
                                      Implicit output:
                                              None.
                                      Side effects:
                                              None.
                                      Routine value:
                                              None.
                                  BEGIN
                                                                                                         ! Start of replymain_status
                                   REGISTER
                                                                                                         ! Output message length
                                                                                                         ! Output message pointer
                                        mptr
                                                          : $ref_bvector;
                                  LOCAL
                                        message : $bblock [128], ! Buffer to message_desc : VECTOR [2, LONG] PRESET ([1] = message),
                                                                                                         ! Buffer to build message
                                        status:
                                     Initialize the message
                                     NOTE: We are using an internal interface to OPCOM which is subject to change!
                                  CH$fILL (0, opc$k_status_min_size, message);
message [opc$b_rqstcode] = opc$x_status_message [opc$b_scope] = opc$k_system
                                                                                                      ! Init all fixed fields to zero
                                                                                 = opc$_x_status;
= opc$k_system;
                       1154
1155
1156
1157
                                     Move the sending terminal name
                                  mptr = message [opc$t_status_opr];
mlen = .dvi_terminal_[en;
mptr [0] = .mlen;
CH$MOVE (.mlen, dvi_terminal_buf, mptr [1]);
message_desc [0] = $byteoffset (opc$t_status_opr) + 1 + .mlen; ! Save total length
                                                                                                           Set output pointer to start of text area Get length of terminal name
                       1158
1159
```

VO

			I 11 16-Sep-1984 01:44:54 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:50:54 COPCOM.SRCJREPLYMAIN.B32;1					
1163 2 ! 1164 3 IF ! 1165 2 THE! 1166 2 1167 2 1168 2 RETU	NOT (status = 1 \$signal_stop URN ss\$_normal	Ssndopr (m (.status);	sgbuf=m	essage_		End of	replymain_status	
00 01 A0	04 AE 6E 08 AE 50 56 0000 CF 6E 00000000G 00 0A 00000000G 00 50	08 08 010F 22 0000* 1B 04	CE 90 92 90 92 90 92 90 92 90 92 90 90 90 90 90 90 90 90 90 90 90 90 90	E 00002 6 00009 6 00009 6 000013 6 00015 6 00015 6 00024 7 00034 8 00037 8 00037 8 00041 8 00044 8 00044 8 00044	15:	ENTRY MOVAB CLRL MOVAB MOVC5 MOVW MOVAB MOVC3 MOVAB CLRL PUSHAB CALLS BLBS PUSHL CALLS RET MOVL RET	REPLYMAIN_STATUS, Save R2,R3,R4,R5,R6 -132(SP),SP MESSAGE_DESC MESSAGE, MESSAGE_DESC+4 W0, (SP), W0, W30, MESSAGE W271, MESSAGE MESSAGE+26, MPTR DVI TERMINAL_LEN, MLEN MLEN, (MPTR) MLEN, (MPTR) MLEN, DVI TERMINAL_BUF, 1(MPTR) 27(R6), MESSAGE_DESC -(SP) MESSAGE_DESC W2, SYS\$SNDOPR STATUS, 1\$ STATUS W1, LIB\$STOP	1104 1143 1150 1151 1156 1157 1158 1159 1160 1164 1166
	replymain_st 1161 2 ! Se 1162 2 ! Se 1163 2 ! F !! 1164 3 !F !! 1165 2 THE! 1166 2 1167 2 1168 2 RETU	00 04 AE 00 08 AE 50 56 01 AO 0000 CF 6E 00000000G 00 0A 00000000G 00 50	Teplymain_status 1161 2	Teplymain_status 1161	Teplymain_status 1161	Teplymain_status 14-Sep-19 1161 2	Templymain_status	Send the message to OPCOM

J 11 16-Sep-1984 01:44:54 14-Sep-1984 12:50:54

VAX-11 Bliss-32 V4.0-742 [OPCOM.SRC]REPLYMAIN.B32;1

Page 41 (12)

OP

1170 1 END 1171 0 ELUDOM

replymain_status

REPLY command main module

! End of REPLYMAIN

.EXTRN LIB\$SIGNAL

PSECT SUMMARY

Bytes Name

Attributes

SOWNS SPLITS SCODES

OPCSREPLYMAIN VO4-000

; 1181 ; 1182

CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) CON, NOPIC, ALIGN(2) RD , NOEXE , NOSHR , RD , NOEXE , NOSHR , RD , EXE , NOSHR , LCL. REL, REL, NOVEC, WRT, NOVEC, NOWRT,

Library Statistics

File	Total	Symbols Loaded	Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]LIB.L32;1 _\$255\$DUA28:[OPCOM.OBJ]OPCOMLIB.L32;1	18619 633	42	12	1000	00:01.8 00:00.9

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:REPLYMAIN/OBJ=OBJ\$:REPLYMAIN MSRC\$:REPLYMAIN/UPDATE=(ENH\$:REPLYMAIN)

2164 code + 642 data bytes 00:41.2 02:14.6 1705 Size: Run Time:

Elapsed Time: 02:14.0 Lines/CPU Min: 1705 Lexemes/CPU-Min: 22144 Memory Used: 272 pages Compilation Complete

0291 AH-BT13A-SE

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